

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 09/117,246C  
Source: JFW16  
Date Processed by STIC: 3/8/06

***ENTERED***



IFW16

**RAW SEQUENCE LISTING** DATE: 03/08/2006  
**PATENT APPLICATION:** US/09/117,246C TIME: 11:53:26

Input Set : A:\.txt  
Output Set: N:\CRF4\03072006\1117246C.raw

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/117,246C

DATE: 03/08/2006

TIME: 11:53:26

Input Set : A:\.txt

Output Set: N:\CRF4\03072006\I117246C.raw

70 <400> SEQUENCE: 4  
 72 Ile Glu Phe Lys Pro Lys Pro Lys Pro Lys Glu Phe Lys Pro  
 73 1 5 10 15  
 76 Lys Pro Lys Pro Lys Pro Lys Glu Phe Leu Gln Pro  
 77 20 25  
 80 <210> SEQ ID NO: 5  
 81 <211> LENGTH: 20  
 82 <212> TYPE: PRT  
 83 <213> ORGANISM: Maize  
 85 <400> SEQUENCE: 5  
 87 Asp Gly Ile Asp Glu Phe Lys Pro Lys Pro Lys Pro Lys Glu  
 88 1 5 10 15  
 91 Phe Lys Leu Asp  
 92 20  
 95 <210> SEQ ID NO: 6  
 96 <211> LENGTH: 672  
 97 <212> TYPE: DNA  
 98 <213> ORGANISM: Maize  
 101 <220> FEATURE:  
 102 <221> NAME/KEY: CDS  
 103 <222> LOCATION: (1)..(672)  
 105 <400> SEQUENCE: 6  
 106 atg agg gtg ttg ctc gtt gcc ctc gct ctc ctg gct gct gcg agc 48  
 107 Met Arg Val Leu Leu Val Ala Leu Ala Leu Ala Ala Ser  
 108 1 5 10 15  
 110 gcc acc tcc acg cat aca agc ggc ggc tgc ggc tgc cag cca ccg ccg 96  
 111 Ala Thr Ser Thr His Thr Ser Gly Gly Cys Gly Cys Gln Pro Pro Pro  
 112 20 25 30  
 114 ccg gtt cat cta ccg ccg gtg cat ctg cca cct ccg gtt cac ctg 144  
 115 Pro Val His Leu Pro Pro Val His Leu Pro Pro Pro Val His Leu  
 116 35 40 45  
 118 cca cct ccg gtg cat ctc cca ccg gtc cac ctg ccg ccg ccg gtc 192  
 119 Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val  
 120 50 55 60  
 122 cac ctg cca ccg ccg gtc cat gtg ccg ccg gtt cat ctg ccg ccg 240  
 123 His Leu Pro Pro Pro Val His Val Pro Pro Pro Val His Leu Pro Pro  
 124 65 70 75 80  
 126 cca cca tgc cac tac cct actcaa ccg ccc ccg cct cag cct cat ccc 288  
 127 Pro Pro Cys His Tyr Pro Thr Gln Pro Pro Arg Pro Gln Pro His Pro  
 128 85 90 95  
 130 cag cca cac cca tgc ccg tgc caa cag ccg cat cca agc ccg tgc cag 336  
 131 Gln Pro His Pro Cys Pro Cys Gln Gln Pro His Pro Ser Pro Cys Gln  
 132 100 105 110  
 134 ctg cag gga acc tgc ggc gtt ggc agc acc ccg atc ctg ggc cag tgc 384  
 135 Leu Gln Gly Thr Cys Gly Val Gly Ser Thr Pro Ile Leu Gly Gln Cys  
 136 115 120 125  
 138 gtc gag ttt ctg agg cat cag tgc agc ccg acg gcg acg ccc tac tgc  
 139 Val Glu Phe Leu Arg His Gln Cys Ser Pro Thr Ala Thr Pro Tyr Cys 432  
 140 130 135 140

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142	tcg cct cag tgc cag tcg ttg cgg cag cag tgt tgc cag cag ctc agg	480
143	Ser Pro Gln Cys Gln Ser Leu Arg Gln Gln Cys Cys Gln Gln Leu Arg	
144	145 150 155 160	
146	cag gtg gag ccg cag cac cgg tac cag gcg atc ttc ggc ttg gtc ctc	528
147	Gln Val Glu Pro Gln His Arg Tyr Gln Ala Ile Phe Gly Leu Val Leu	
148	165 170 175	
150	cag tcc atc ctg cag cag ccg caa agc ggc cag gtc gcg ggg ctg	576
151	Gln Ser Ile Leu Gln Gln Pro Gln Ser Gly Gln Val Ala Gly Leu	
152	180 185 190	
154	ttg gcg gcg cag ata gcg cag caa ctg acg gcg atg tgc ggc ctg cag	624
155	Leu Ala Ala Gln Ile Ala Gln Gln Leu Thr Ala Met Cys Gly Leu Gln	
156	195 200 205	
158	cag ccg act cca tgc ccc tac gct gct gcc ggc ggt gtc ccc cac tga	672
159	Gln Pro Thr Pro Cys Pro Tyr Ala Ala Gly Gly Val Pro His	
160	210 215 220	
163	<210> SEQ ID NO: 7	
164	<211> LENGTH: 223	
165	<212> TYPE: PRT	
166	<213> ORGANISM: Maize	
168	<400> SEQUENCE: 7	
170	Met Arg Val Leu Leu Val Ala Leu Ala Leu Leu Ala Ala Ser	
171	1 5 10 15	
174	Ala Thr Ser Thr His Thr Ser Gly Gly Cys Gly Cys Gln Pro Pro Pro	
175	20 25 30	
178	Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu	
179	35 40 45	
182	Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val	
183	50 55 60	
186	His Leu Pro Pro Pro Val His Val Pro Pro Pro Val His Leu Pro Pro	
187	65 70 75 80	
190	Pro Pro Cys His Tyr Pro Thr Gln Pro Pro Arg Pro Gln Pro His Pro	
191	85 90 95	
194	Gln Pro His Pro Cys Pro Cys Gln Gln Pro His Pro Ser Pro Cys Gln	
195	100 105 110	
198	Leu Gln Gly Thr Cys Gly Val Gly Ser Thr Pro Ile Leu Gly Gln Cys	
199	115 120 125	
202	Val Glu Phe Leu Arg His Gln Cys Ser Pro Thr Ala Thr Pro Tyr Cys	
203	130 135 140	
206	Ser Pro Gln Cys Gln Ser Leu Arg Gln Gln Cys Cys Gln Gln Leu Arg	
207	145 150 155 160	
210	Gln Val Glu Pro Gln His Arg Tyr Gln Ala Ile Phe Gly Leu Val Leu	
211	165 170 175	
214	Gln Ser Ile Leu Gln Gln Pro Gln Ser Gly Gln Val Ala Gly Leu	
215	180 185 190	
218	Leu Ala Ala Gln Ile Ala Gln Gln Leu Thr Ala Met Cys Gly Leu Gln	
219	195 200 205	
222	Gln Pro Thr Pro Cys Pro Tyr Ala Ala Gly Gly Val Pro His	
223	210 215 220	
226	<210> SEQ ID NO: 8	

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/117,246C**

**DATE: 03/08/2006**  
**TIME: 11:53:26**

**Input Set : A:\.txt**  
**Output Set: N:\CRF4\03072006\I117246C.raw**

227 <211> LENGTH: 693  
228 <212> TYPE: DNA  
229 <213> ORGANISM: maize  
232 <220> FEATURE:  
233 <221> NAME/KEY: CDS  
234 <222> LOCATION: (1)..(693)  
236 <400> SEQUENCE: 8  
237 atg agg gtg ttg ctc gtt gcc ctc gct ctc ctg gct ctc gct gcg agc 48  
238 Met Arg Val Leu Leu Val Ala Leu Ala Leu Ala Leu Ala Ala Ser  
239 1 5 10 15  
241 gcc acc tcc acg cat aca agc ggc ggc tgc ggc tgc cag cca ccg ccg 96  
242 Ala Thr Ser Thr His Ser Gly Gly Cys Gly Cys Gln Pro Pro Pro  
243 20 25 30  
245 ccg gtt cat cta ccg ccg ccg gtg cat ctg cca cct ccg gtt cac ctg 144  
246 Pro Val His Leu Pro Pro Val His Leu Pro Pro Pro Val His Leu  
247 35 40 45  
249 cca cct ccg gtg cat ctc cca ccg ccg gtc cac ctg ccg ccg ccg gtc 192  
250 Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val  
251 50 55 60  
253 cac ctg cca ccg ccg gtc cat gtg ccg ccg ccg gtt cat ctg ccg ccg 240  
254 His Leu Pro Pro Val His Val Pro Pro Pro Val His Leu Pro Pro Pro Val  
255 65 70 75 80  
257 cca cca tgc cac tac cct actcaa ccg ccc ccg atc gaa ttc aaa cca 288  
258 Pro Pro Cys His Tyr Pro Thr Gln Pro Pro Arg Ile Glu Phe Lys Pro  
259 85 90 95  
261 aag cca aag ccg aag cca aaa gaa ttc aaa cca aag cca aag ccg aag 336  
262 Lys Pro Lys Pro Lys Pro Lys Glu Phe Lys Pro Lys Pro Lys Pro Lys  
263 100 105 110  
265 cca aaa gaa ttc ctg cag ccc ctg cag gga acc tgc ggc gtt ggc agc 384  
266 Pro Lys Glu Phe Leu Gln Pro Leu Gln Gly Thr Cys Gly Val Gly Ser  
267 115 120 125  
269 acc ccg atc ctg ggc cag tgc gtc gag ttt ctg agg cat cag tgc agc 432  
270 Thr Pro Ile Leu Gly Gln Cys Val Glu Phe Leu Arg His Gln Cys Ser  
271 130 135 140  
273 ccg acg gcg acg ccc tac tgc tcg cct cag tgc cag tcg ttg cgg cag 480  
274 Pro Thr Ala Thr Pro Tyr Cys Ser Pro Gln Cys Gln Ser Leu Arg Gln  
275 145 150 155 160  
277 cag tgt tgc cag cag ctc agg cag gtg gag ccg cag cac ccg tac cag 528  
278 Gln Cys Cys Gln Gln Leu Arg Gln Val Glu Pro Gln His Arg Tyr Gln  
279 165 170 175  
281 gcg atc ttc ggc ttg gtc ctc cag tcc atc ctg cag cag cag ccg caa 576  
282 Ala Ile Phe Gly Leu Val Leu Gln Ser Ile Leu Gln Gln Gln Pro Gln  
283 180 185 190  
285 agc ggc cag gtc gcg ggg ctg ttg gcg gcg cag ata gcg cag caa ctg 624  
286 Ser Gly Gln Val Ala Gly Leu Leu Ala Ala Gln Ile Ala Gln Gln Leu  
287 195 200 205  
289 acg gcg atg tgc ggc ctg cag cag ccg act cca tgc ccc tac gct gct 672  
290 Thr Ala Met Cys Gly Leu Gln Gln Pro Thr Pro Cys Pro Tyr Ala Ala  
291 210 215 220

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**Input Set : A:\.txt**  
**Output Set: N:\CRF4\03072006\I117246C.raw**

293	gcc ggc ggt gtc ccc cac tga	693
294	Ala Gly Gly Val Pro His	
295	225 230	
298	<210> SEQ ID NO: 9	
299	<211> LENGTH: 230	
300	<212> TYPE: PRT	
301	<213> ORGANISM: maize	
303	<400> SEQUENCE: 9	
305	Met Arg Val Leu Leu Val Ala Leu Ala Leu Ala Ala Ser	
306	1 5 10 15	
309	Ala Thr Ser Thr His Thr Ser Gly Gly Cys Gly Cys Gln Pro Pro Pro	
310	20 25 30	
313	Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu	
314	35 40 45	
317	Pro Pro Pro Val His Leu Pro Pro Pro Val His Leu Pro Pro Pro Val	
318	50 55 60	
321	His Leu Pro Pro Pro Val His Val Pro Pro Pro Val His Leu Pro Pro	
322	65 70 75 80	
325	Pro Pro Cys His Tyr Pro Thr Gln Pro Pro Arg Ile Glu Phe Lys Pro	
326	85 90 95	
329	Lys Pro Lys Pro Lys Pro Lys Glu Phe Lys Pro Lys Pro Lys Pro Lys	
330	100 105 110	
333	Pro Lys Glu Phe Leu Gln Pro Leu Gln Gly Thr Cys Gly Val Gly Ser	
334	115 120 125	
337	Thr Pro Ile Leu Gly Gln Cys Val Glu Phe Leu Arg His Gln Cys Ser	
338	130 135 140	
341	Pro Thr Ala Thr Pro Tyr Cys Ser Pro Gln Cys Gln Ser Leu Arg Gln	
342	145 150 155 160	
345	Gln Cys Cys Gln Gln Leu Arg Gln Val Glu Pro Gln His Arg Tyr Gln	
346	165 170 175	
349	Ala Ile Phe Gly Leu Val Leu Gln Ser Ile Leu Gln Gln Gln Pro Gln	
350	180 185 190	
353	Ser Gly Gln Val Ala Gly Leu Leu Ala Ala Gln Ile Ala Gln Gln Leu	
354	195 200 205	
357	Thr Ala Met Cys Gly Leu Gln Gln Pro Thr Pro Cys Pro Tyr Ala Ala	
358	210 215 220	
361	Ala Gly Gly Val Pro His	
362	225 230	
365	<210> SEQ ID NO: 10	
366	<211> LENGTH: 723	
367	<212> TYPE: DNA	
368	<213> ORGANISM: Maize	
371	<220> FEATURE:	
372	<221> NAME/KEY: CDS	
373	<222> LOCATION: (1)..(723)	
375	<400> SEQUENCE: 10	
376	atg agg gtg ttg ctc gtt gcc ctc gct ctc ctg gct ctc gct gcg agc	48
377	Met Arg Val Leu Leu Val Ala Leu Ala Leu Ala Leu Ala Ser	
378	1 5 10 15	

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 03/08/2006  
PATENT APPLICATION: US/09/117,246C                    TIME: 11:53:27

Input Set : A:\.txt  
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Please Note:

o n and/or Xaa have been detected in the Sequence Listing. Please review the  
quence Listing to ensure that a corresponding explanation is presented in the <220>  
<223> fields of each sequence which presents at least one n or Xaa.

:#:22; Xaa Pos. 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25  
:#:22; Xaa Pos. 26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44  
:#:22; Xaa Pos. 45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60

**VERIFICATION SUMMARY**

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Input Set : A:\.txt

Output Set: N:\CRF4\03072006\I117246C.raw

349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0

341 Repeated in SeqNo=22